

# USER'S MANUAL

## MITSUBISHI WIRELESS KIT

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USER'S MANUAL **ENGLISH**

MANUEL DE L'UTILISATEUR **FRANÇAIS**

ANWENDERHANDBUCH **DEUTSCH**

ISTRUZIONI PER L'USO **ITALIANO**

MANUAL DEL PROPIETARIO **ESPAÑOL**

GEBRUIKERSHANDLEIDING **NEDERLANDS**

MANUAL DO UTILIZADOR **PORTUGUÊS**

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ **ΕΛΛΗΝΙΚΑ**

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ **РУССКИЙ**

KULLANIM KILAVUZU **TÜRKÇE**



This air conditioner complies with EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directive 2006/95/EC.  
CE marking is applicable to the area of 50 Hz power supply.

Ce climatiseur est conforme à la Directive EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directive 2006/95/EC.  
La marque CE s'applique aux régions alimentées en courant de 50 Hz.

Dieses Klimagerät erfüllt die EMC Direktiven 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Direktiven 2006/95/EC.  
Die CE-Märke gilt für Bereiche mit einer Netzstromversorgung von 50 Hz.

Questo condizionatore d'aria è conforme alla Direttiva EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Direttiva 2006/95/EC.  
Il marchio CE è applicabile alla fascia di alimentazione 50 Hz.

Este acondicionador de aire cumple con la directiva EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directiva 2006/95/EC.  
La indicación CE sólo corresponde al área de suministro eléctrico de 50 Hz.

Deze airconditioner voldoet aan EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directive 2006/95/EC.  
CE-markering is van toepassing op het gebied met een netstroom van 50 Hz.

Este aparelho de ar condicionado está em conformidade com a Directiva EMC 89/336/CEE, 92/31/CEE, 93/68/CEE, a Directiva LV 2006/95/EC.  
A marca CE aplica-se à zona de fornecimento de energia a 50 Hz.

Αυτό το κλιματιστικό είναι σύμφωνο με τις προδιαγραφές των Οδηγιών EMC 89/336, 92/31 και 93-68 της ΕΟΚ και της Οδηγίας LV 2006/95/ΕΕ.  
Το σήμα CE ισχύει μόνον σε περιοχές όπου η τροφοδοσία είναι 50 Hz.

**PJZ012A055**

Thank you very much for your purchase of this packaged air conditioning system produced by Mitsubishi Heavy Industries. Please read through this manual before using the product and use the product appropriately according to the instructions in the manual. After you have read the manual, store it with the warranty certificate in a safe place. It will help you when you have questions or problems. Apart from the remote controller operation, be sure to read the instruction manual enclosed with the indoor unit.

**ENGLISH**

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## SAFETY PRECAUTIONS

- Please read these "SAFETY PRECAUTIONS" before starting to use this product and use the product appropriately according to the instructions.
- The precautions provided here are classified into "⚠ DANGER" and "⚠ CAUTION". The "⚠ DANGER" sections describe potentially hazardous situations that may lead to serious outcomes such as death and serious injuries if the product is mishandled. Note, however, that depending on the situation, the items listed in the "CAUTION" sections do also have the potential of causing serious outcomes. Both warnings and cautions provide you important information related to safety ; please make sure to observe them.
- The symbols used throughout the main text of this manual have the following meaning.
  - ⚠ marks mean danger, alarm, and caution. The specified prohibited item is described in the triangle. The left mark means "Shock hazard alarm".
  - ⊘ marks mean prohibited items. The specified prohibited item is described in the circle or in the vicinage.
  - ⚡ marks mean compulsory action or instruction. The specified prohibited item is described in the circle. The left mark means "Earth is needed".
- After you have read the manual, always store it where other users can refer to at any time. If a new owner takes over the system, make sure to pass this manual.

## INSTALLATION PRECAUTIONS

### ⚠ DANGER

**Make sure to have the installation done by your dealer or a specialist.**

If you install by yourself and the unit is not properly installed, water leakage, electric shock, fire and injuries caused by the drop of the unit may occur.

**The preventive measures that the density of leaked refrigerant does not exceed the limit is necessary in case of installing the unit in a small room.**  
The leakage of refrigerant may cause oxygen deficiency accident. Consult your dealer for the measures.

### ⚠ CAUTION

**Make sure to perform grounding work.**

Do not connect grounding wire to any gas pipe, water pipe, conductor rods or telephones. Incomplete grounding may cause electric shock through leakage of electricity.

**Make sure to mount a leakage breaker.**

Otherwise electric shock may occur. Please consult your dealer or a specialist for the mounting.

**Do not mount where flammable gas leakage can happen.**

If leaked gas stagnates around the unit, the gas may cause fire.

**Make sure to layout the drain pipe so that the water is completely drained.**

Otherwise, water may leak and wet household goods.

## OPERATION PRECAUTIONS

### ⚠ DANGER

**Do not expose yourself directly to cooled air for a long time or cool too much.**

It may be cause of deconditioning or health disorder.

**Do not insert fingers or sticks into the air inlet or outlet grilles.**

It may cause injuries because of the fan rotating at high speed.

**If the unit has been submerged under water due to a natural disaster such as flood or typhoon, consult your dealer before using it again.**

If you use it as it stands, it may lead to failure, electric shock or fire.

**If any abnormal symptom (scorched flavor etc.) is found, cut off the power and stop the operation. Then consult your dealer.**

If you use it as it stands, it may lead to failure, electric shock or fire.

**One of the causes of poor cooling or poor heating may be refrigerant leakage. Please consult your dealer.**

If the repair requires additional refrigerant, determine the service with the service staff. The refrigerant of air conditioner is not toxic. Normally the refrigerant does not leak. But if it leaks and contacts fire such as fan heater, space heater or cooking heater, it may produce toxic chemicals.

**Do not insert fingers or sticks even if air blower does not operate.**

It may suddenly operate and cause injuries.

### ⚠ CAUTION

**Do not use for particular purpose such as the storage of food, animals and plants, precision apparatus and arts etc.**

Storage goods may degrade.

**Do not operate the button with wet hand.**

It may cause electric shock.

**When a burning appliance is used together with the unit, ventilate frequently.**

If ventilation is not sufficient, it may cause oxygen deficiency accident.

**Do not place a burning appliance where the airflow from the unit is directly blown.**

It may cause the imperfect combustion of the equipment.

**Make sure that the unit installation foundation is not damaged due to long-term use.**

If it is left to stand, the unit may fall down causing injury.

**Do not wash the unit with water, nor place a vase with water on the unit.**

It may cause electric shock or ignition.

**Do not install the unit where the airflow is directly blown to animals and plants.**

They may suffer from adverse effect.

**Before cleaning, make sure to stop operation and cut off the power.**

The fan inside rotates at high speeds.

**Make sure to use proper size of fuse.**

Using steel wire or copper wire may lead to failure or fire.

**Do not store a flammable spray etc. near the unit, nor blow directly to the unit.**

It may lead to fire.

**Before maintenance, make sure to stop operation and cut off the power.**

The fan inside rotates at high speeds.

**When the unit isn't used for a long-term, cut off the power.**

The accumulation of dirt may lead to heat generation or fire. But, before resuming the operation, turn on the unit for six hours beforehand to save harmless.

**Do not place any other electric appliances or household goods below or around the air conditioner.**

Dripping from the unit may lead to failure or contamination.

**Do not touch the aluminum fin.**  
Otherwise it may lead to injuries.



**Do not clean the inside of the indoor unit by yourself. Make sure to consult your dealer or user inquiry counter specified by our company.**  
If you select incorrect detergent or improper method, resin parts may be damaged and lead to water leakage. If the detergent is dropped on the electric component or motor, it may lead to failure, smoking or ignition.



**Do not place objects on the outdoor unit, nor mount on it.**

It may lead to injuries resulting from dropping or falling.



**During the operation or maintenance, do not use an unstable footrest.**

It may lead to injuries resulting from falling.



**During thunderstorm, stop the operation and turn off the switch.**

A lightning strike may lead to failure.



**After several seasons of operating, inspections and maintenances are required except routine care and cleaning.**

Accumulated dirt or dust inside the indoor unit may cause odor, water leakage through the clogging of water discharging pipe for dehumidification. Specialized information and skills are required for inspections and maintenances. Therefore contact your dealer.



**Do not place any object around the outdoor unit, nor allow fallen leaves to pile up.**

Fallen leaves may induce insects and worms in them, and they may lead to failure, ignition or smoking by touching electric components.



**Do not use with inlet/outlet grilles or other panel removed.**

Otherwise, it may lead to injuries.



**Do not operate or stop the unit by using the power supply switch.**

It may lead to fire or water leakage.  
If auto restart is set effectively, the fan may rotate suddenly causing injuries.



**Do not touch blowout port when the swing louver moves.**

Otherwise, it may lead to injuries.



**Do not strain the remote control cord.**

A part of core wire may be cut off causing electric leakage.



**Do not use water heater etc. near the indoor unit or remote control.**

If a Vapor-generating appliance is used near them, it may lead to water drop causing electric leakage or short circuit.



**Do not use the unit where powder or fiber is floating.**

Fine powder or fiber passing through the air filter may stagnate inside the unit and lead to electric leak or short circuit.



**Do not place objects under the unit which must avoid being exposed to water.**

Over 80 percent humidity or the clogging of drain pipe may damage them through dew dropping.



## PRECAUTIONS FOR RELOCATION OR REPAIRING

### ⚠ CAUTION

**Never perform any modification. Contact your dealer for repairing.**



Improper repairing may lead to water leakage, electric shock or fire. Normally the refrigerant does not leak. But if it leaks and contacts fire such as fan heater, space heater or cooking heater, it may produce toxic chemicals. When repairing refrigerant leakage, determine the service with the service staff that the repair has been finished without fault.

**If it is required to relocation and reinstall the unit, consult your dealer or a specialist.**



Improper installation of air conditioning unit may cause water leakage, electric shock and/or fire.

**Before repairing or checking indoor unit, be sure to turn off "Indoor unit power supply breaker".**



It can result in electric shock or injury due to rotation of indoor unit fan if you perform check or repair with the "Indoor unit power supply breaker" turned on.

**Place the panels removed for repairing or checking on the stable spot.**



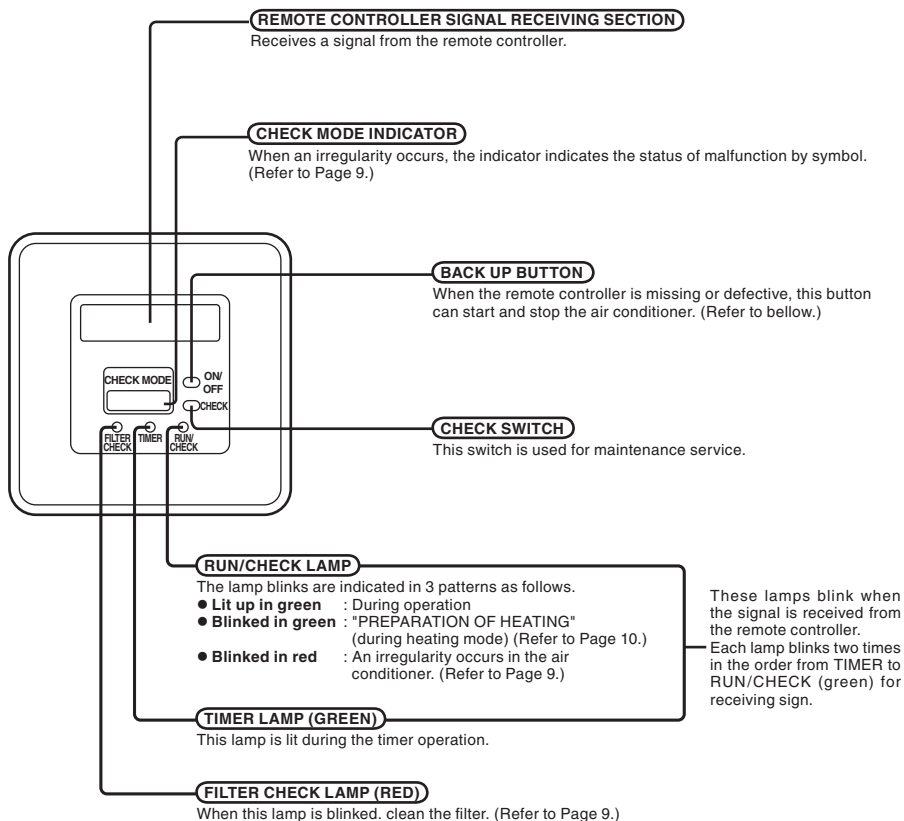
Otherwise, dropping or falling may lead to injury.

## PRECAUTIONS FOR WASTE DISPOSAL



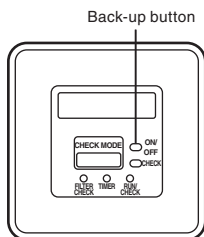
Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2002/96/EC) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery and not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

## INDICATION BOARD



## BACK UP BUTTON

- When the batteries are exhausted or if the remote controller is missing or defective, this button can be used to start or stop the air conditioner in the makeshift mode.



### ■ Press the back-up button

The air conditioner starts. Set items are as follows.

Operation mode	With auto mode: auto cooling Without auto mode: cooling
Set temperature	23°C
Fan speed	HI
Air flow direction	Horizontal
Timer	Invalid

- By pressing the switch once again, the air conditioner stops

# NAMES AND FUNCTIONS OF REMOTE CONTROLLER BUTTON

## WIRELESS REMOTE CONTROLLER

• All displays are described in the liquid crystal display for explanation

Display section

- ROOM TEMP display  
Indicates set temperature.
- FAN SPEED display  
Indicates the selected air flow volume.
- ON-TIMER display  
Indicates when ON-TIMER is set. \*\*See page 7
- ON TIMER setting time display  
Indicates the ON-TIMER setting time.  
Nothing displayed when ON-TIMER isn't set.  
\*\*See page 7

Transmitter  
Sends signal to the air conditioner.

- FAN SPEED button  
Every time this button is pressed, the mode is switched as below.

→HI→MED→LO→

- FILTER button  
Used to reset (turn off) the filter sign.  
Press the button only after completing the filter cleaning.

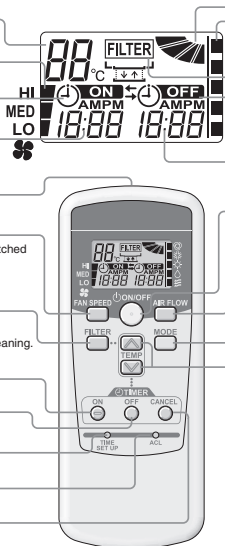
- ON TIMER button  
Sets ON TIMER operation. \*\*See page 7
- OFF TIMER button  
Sets OFF TIMER operation. \*\*See page 7

- TIME SET UP switch  
Sets current time. \*\*See page 6

- ACL switch  
Used to reset the microcomputer.

- TIMER CANCEL button  
Used to cancel the TIMER SETTINGS.

Operation section



- AIR FLOW display  
Indicates the status of swing louver. \*\*See page 8

- OPERATION MODE display  
Indicates selected operation with ■.

- FILTER display  
Indicates for two seconds when FILTER button is pressed.

- OFF-TIMER display  
Indicates when OFF-TIMER is set. \*\*See page 7

- OFF-TIMER setting time display  
Indicates OFF-TIMER setting time. Indicates the current time when the OFF-TIMER is not set. \*\*See page 7

- ON/OFF button  
When this is pressed once, the AIR CON starts to operate and when this is pressed once again, it stops operating.

- AIR FLOW button  
Used to swing the louver. \*\*See page 8

- OPERATION MODE select button  
Every time this button is pressed, ■ displays switch as below  
☉ (AUTO) → ☼ (COOL) → ☿ (HEAT)  
☼ (FAN) ← ☿ (DRY) ←

- ROOM TEMP/TIME SETTING button  
Sets room temperature by pressing [▲] or [▼] button.  
Sets time when setting the time.

## SETTING CHANGE OF AUTO MODE OPERATION

Auto mode operation of the KX (except KXR) cannot be selected. For these models, set the remote controller to disable the auto mode operation.

While pressing the [MODE] button and then press the [ACL] switch, or while pressing the [MODE] button and then insert the batteries to the remote controller, then the auto mode is invalid.

**NOTICE** If the display of remote controller has troubles, press [ACL] switch.

## WIRELESS REMOTE CONTROLLER HANDLING PROCEDURE

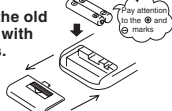
### REPLACING THE BATTERIES

If the following occurs, the batteries are exhausted. Replace with new ones.

- When the signal is transmitted, the receiver does not display reception.
- The display fades away or does not show anything.

#### 1 Pull out the cover.

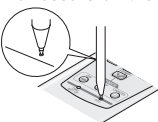
#### 2 Replace the old batteries with new ones. (R03x2)



#### 3 Close cover.

#### 4 Adjust the current time.

- When any error occurs on the display.  
Press [ACL] switch with a ballpoint etc.



## NOTICE

If the remote controller is set as "Radio Interference Prevention Setting", it returns to default when the batteries are removed. It is necessary to perform the next procedures again.

## How to set Radio Interference Prevention Setting

It is possible to sent two way. Press [ACL] switch with [AIR FLOW] button kept pressing or Insert the batteries with [AIR FLOW] button kept pressing.

## ATTENTION

- Do not use old and new batteries mixed.
- Remove the batteries when the remote controller is not used for a long time.
- The recommendable effective period of a battery is about 6 to 12 months. (It depends on the usage.)

- The recommendable effective period is printed on the battery. This may be shorter due to manufacturing time of the unit.
- However the battery may be still working in order after expiry date.

## ATTENTION

When the batteries are removed, the system is returned to initial setting (auto mode is valid). In case that removing the batteries in the remote controller, perform the above operation once again.

## HOW TO OPERATE

When you press each button of wireless remote controller, directing properly to the receiver, the signal is transmitted. If the air conditioner receives the signal correctly, the light of operation indicator will flash.

## ATTENTION

The operation of remote controller must be performed slowly and steadily.

## ABOUT REMOTE CONTROLLER HOLDER

The remote controller can be mounted on the wall or pillar with the remote controller holder.

Slide from the upper part of the holder to place or take out the remote controller.

## ATTENTION

- Do not place the remote controller to the following places.

- The place exposed to direct sunlight or other strong lighting.
- The place exposed to high temperature, for EXAMPLE, on the electric carpet or near a stove.

- If the receiver is exposed to direct sunlight or other strong lighting, it may not receive the signal. In this case, shut out the sunlight or turn down the lighting.

- Do not place anything between the remote controller and the unit.

- Do not operate the remote controller for other electric appliances which can be operated with a remote controller.

- Handle it with utmost attention.

- Even if the remote controller is not found or damaged, you can operate the air conditioner with itself. See "Backup button" on page 4.

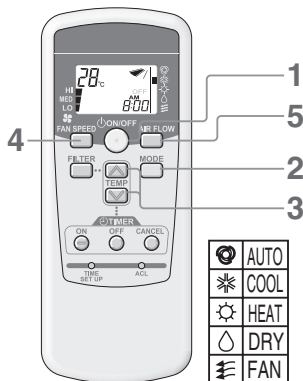
When the batteries are inserted, each operation mode is set as the right figure. Adjust the current time referring to page 6. (The figure is while operation, and only the current time is displayed while stopping)



## HOW TO OPERATE

### ATTENTION

- Turn on the power supply of both indoor/outdoor units for six hours before starting the unit to protect the units. (The crankcase is conducted and the compressor is heated) Do not turn off the power supply. (The crankcase heater is conducted while the compressor is stopped, preventing failure of the compressor due to accumulation of liquid refrigerant by keeping the compressor warm.)
- The operation of remote controller must be performed slowly and steadily.



### ■ Guideline of room temperature setting

COOL.....26 to 28°C  
 DRY .....21 to 24°C  
 HEAT .....22 to 24°C  
 FAN ..... TEMP setting is unnecessary

- Operation mode can be changed even when the unit stops.
- If you operate under the same condition (operation mode, set temperature, airflow, louver) just follow step 1, no other operations are necessary. The conditions which were set previously are indicated on the remote controller.

### OPERATION

#### 1 Press **ON/OFF** button.

The operation display light (Green) turns on, and the operation starts. The setting status is displayed on the liquid crystal area on the remote controller.

#### 2 Press **MODE** button.

Current operation mode is indicated with the ■ marks besides the operation mode icons.

The mode will change in the following order by pressing the button.

☉ (AUTO) → ❄ (COOL) → ☀ (HEAT)  
 ≡ (FAN) ← ◊ (DRY) ←

#### 3 Press **TEMP** button.

Set the room temperature by pressing or button.

#### 4 Press **FAN SPEED** button.

→ → FAN SPEED can be changed in order.

#### 5 Press **AIR FLOW** button.

Effective AIR FLOW direction see page 8

AUTO mode operation ..... Intermediate

Cooling, dehumidifying mode.... Horizontal

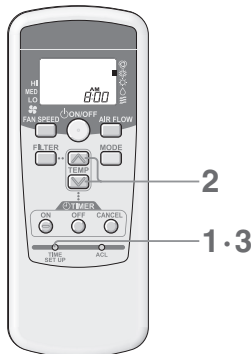
Heating mode ..... Downwards

**Stop** Press **ON/OFF** button

## CURRENT TIME SETTING PROCEDURE

The timer is set based on the current time. Adjust the current time correctly at first of all.

### [EXAMPLE] AM (morning) 8:00 setting



#### 1 Press **TIME SET UP** switch.

Press it with the tip of ballpoint etc. The time display blinks and can be set to the current time.

#### 2 Press or button to adjust to AM 8:00.

Morning : AM Afternoon : PM

The displayed time changes by 1 minutes when pressing the button.

- If or button is pressed during the blinking, fast-forward or fast-backward can be done.

### NOTICE

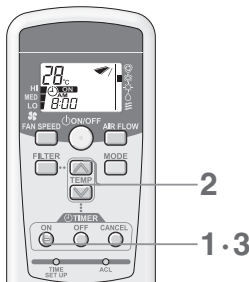
- In case the buttons are not pressed for 60 seconds, the displayed time is set as current time without step 3.

#### 3 Press **TIME SET UP** switch.

The display changes from blinking to steady lighting and the setting is completed.

## ON – TIMER OPERATION

Operation is started at the setting time.



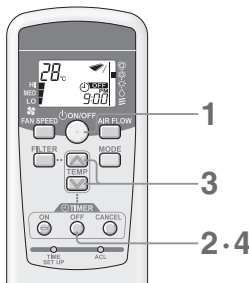
■ In case the ON TIMER is set while the air conditioner is in operation, it will be stopped and ready for restart at the setting time.

[EXAMPLE] If you would like to start the operation at AM 8:00

- Press ON TIMER button.**  
ON TIMER display blinks.
  - Press or button to adjust to AM 8:00.**  
Displayed time will be changed by 10 minutes by pressing the buttons.
  - Press ON TIMER button.**
    - ON TIMER display changes from blinking to steady lighting and the setting is completed. (Press within 60 seconds)  
TIMER display lamp of the receiver is lit.
    - At AM 8:00, TIMER display lamp turns off and the air conditioner will start operating.
- **Cancellation**
- Press CANCEL button to turn off the TIMER display and timer is canceled.
  - After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.
- **Time change**
- Press ON TIMER button to set again.

## OFF – TIMER OPERATION

Operation is stopped at the setting time.



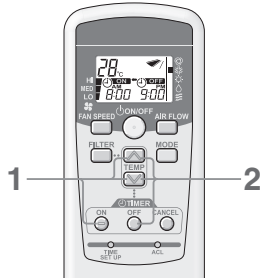
- **Cancellation**
- Press CANCEL button to turn off the TIMER display and timer is canceled.
  - After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.
- **Time change**
- Press OFF TIMER button to set again.

[EXAMPLE] If you would like to stop the operation at PM 9:00

- Press ON/OFF button when the air conditioner stops.**  
The air conditioner starts to operate.  
OFF TIMER can be set only in case the air conditioner is in operation.
- Press OFF TIMER button.**  
OFF TIMER display blinks.
- Press or button to adjust to PM 9:00.**  
Displayed time will be changed by 10 minutes by pressing the buttons.
- Press OFF timer button.**
  - OFF TIMER display changes from blinking to steady lighting and the setting is completed. (Press within 60 seconds)  
TIMER display lamp of the receiver is lit.
  - At PM 9:00, TIMER display lamp turns off and the air conditioner will stops operating.

## PROGRAM TIMER OPERATION

By setting both ON TIMER and OFF TIMER, the settings turn into PROGRAM timer mode. Operation and stopping can be performed at the same time of each day by setting program timer once.



- Set ON TIMER.**  
Press ON TIMER button and set the time with or button.  
Press ON TIMER button again.
- Set OFF TIMER.**  
Press OFF TIMER button and set the time with or button.  
Press OFF TIMER button again.  
Both ON TIMER and OFF TIMER are displayed. The direction of arrow mark changes depending on the status of operation.  
 (stop)      (operating)

- **Cancellation**
- Press CANCEL button to turn off the PROGRAM timer display and timer is canceled. (Operation condition is kept as before the button is pressed.)
  - If ON/OFF button is pressed during TIMER operation, TIMER display turns off and the TIMER is canceled. The air conditioner stops operating.

- **Changing the set time**
- Press OFF TIMER button or ON TIMER button to set again.

### NOTICE

The same time cannot be set for OFF TIMER and ON TIMER.



# HOW TO ADJUST THE LOUVER

## UP AND DOWN ADJUSTING

### How to move swing louver

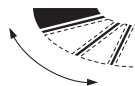


Press **AIR FLOW** button when the air conditioner is in operation.

- The swing louver moves up and down, and the display moves too.

#### NOTICE

The actual movement of swing louver and that of display are not synchronized but this is not a failure.



continuous movement of display

### To fix the position of the swing louver

Press **AIR FLOW** button when the louver position indication comes to the position where you would like to fix it.

- Auto swing display stops at the position and then the swing louver stops and be fixed.

#### NOTICE

Press the button and auto swing display stops immediately, then the swing louver stops later, but this is not a failure. (Auto swing display and the actual louver movement of the air conditioner are not synchronized)

### The swing louver movement during heat preparation

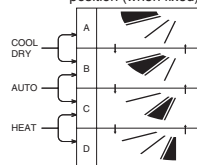
When "heat preparation" is displayed, the position of the swing louver sets horizontal automatically. (The display of remote controller keeps the set position)

When heat preparation ends and normal operation starts, the position of the swing louver returns to the set position.

#### CAUTION

Do not set the position of the swing louver downwards for a long time. Dew formation on the side panel may drop. (in case of FDE)

Recommended air flow direction position (when fixed)



# FOR COMFORTABLE USE

### Clean the filter frequently

The filter should be cleaned when the "Filter cleaning" message is displayed, and at the end of cooling and heating seasons.

#### If the filter is clogged...

- The cooling/heating capacity will get reduced. Moreover it leads to waste of electricity and larger operation noise.
- It may cause failure.
- Dew may form and drop during cooling.

#### Do not block the inlet and outlet grilles of the indoor and outdoor units.

Excessive load to the unit may cause failure.

#### Keep moderate room temperature

Too much cooling or heating is not good for your health. It will also waste the electricity.

### Block direct sunlight and avoid draft

Block direct sunlight with blinds or curtains during cooling. Close the windows and doors except when ventilation is necessary.

#### Adjust the airflow properly

Do not expose yourself directly to the airflow for too long time. For small animals and plants, it is harmful as well.

#### If you feel cold underneath your feet during heating

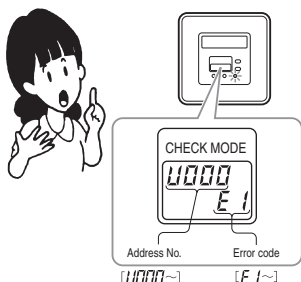
If the ceiling is so high that the warm airflow does not circulate underneath your feet, it is recommended to use a circulator. Consult your dealer for more detail.

#### Stop the operation and turn the power supply off if there are any possibility of lightning strike during a thunderstorm.

Lightning strike may lead to the failure of air-conditioning system.

## WHEN A RED INDICATION LAMP IS LIT

### WHEN THE RUN/CHECK LAMP (RED) IS BLINKED



#### ■ An irregularity has occurred in the air conditioner.

- When the RUN/CHECK lamp starts blinking in red, the air conditioner stops.
- Address No. and error code are displayed on the check mode indicator.

#### ■ Please contact your dealer and inform them "address No. and error code", "symptom of the trouble", "air conditioner type" and "model name" etc.

- Press the ON/OFF button to stay the air conditioner on the stop mode.

#### NOTICE

The outside unit No. is not displayed.

### WHEN THE FILTER CHECK LAMP (RED) IS LIT



#### ■ Clean the filter.

- When cumulative running time reaches 120 hours, long flashing light (light for 2 seconds, wink out for 1 second) is shed from the filter check lamp (red).
- After cleaning of filter, press the FILTER button on the remote controller to turn off the filter cleaning sign. (Press the button for one second or more)

#### NOTICE

The cumulative running time for filter sign can be changed.  
Consult your dealer for more information.

# PREPARATION OF HEATING

## CASES WHEN THE RUN/CHECK LAMP (GREEN) IS BLINKED (PREPARATION OF HEATING)

### PREPARATION OF HEATING is displayed in the following cases.

#### • At Starting Heating Operation

In order to avoid cool air from blowing out, the airflow into the room may be stopped depending on the room temperature at the start of heating operation. please wait for a while and the operation automatically switches to the normal heating operation.

#### • At defrost operation (during heating operation)

When frost may easily formed on the outdoor unit, the heating operation automatically is stopped (both indoor/outdoor unit stop fan operation) for approximately 5 to 10 minutes per hour and defrosting is operated. After the defrosting is complete, the operation automatically switches back to the normal operation.

## HEATING OPERATION

#### • Heat pump type

Heat pump type heating is the heating mechanism in which the refrigerant takes in outer temperature to supply heat into the room.

#### • Defrost operation

During heating with a heat pump type air conditioner, frost will be formed on the outdoor unit if the temperature outside the room drops. If left alone, the heating efficiency decreases. In order to deal with this, the operation is automatically switched to defrost operation to remove the frost. During the period, the airflow of indoor/outdoor unit is stopped and "heating defrost" is displayed.

#### • Outer air temperature and heating capacity

The heating efficiency of heat pump type air conditioner decreases as the outside temperature becomes lower. If the capacity of air conditioner for heating is not sufficient, please use other heating device.

#### • Time required until the room temperature increases

A heat pump type air conditioner circulates warm air to warm the entire room, so it takes a while to rise up the room temperature. It is recommended to start operation earlier on a very cold day.

#### • When room temperature adjusting device operates during heating

If room temperature rises and the room temperature adjusting device is activated, the airflow becomes automatically low. When the room temperature drops, it switched back automatically to the normal operation.

# OPERATION RANGE

**ATTENTION** Please use the system in the following operation range. If the system is operated outside this range, the protection controls may be activated to avoid malfunction.

Operation \ Condition	Room temperature	Outside air temperature	Indoor humidity
<b>Cooling operation</b>  <b>Dry operation</b>	<b>Approximately 21 to 32°C</b> Long continuous operation under approximately 21°C may lead to malfunction due to dewfall	<b>Approximately -5 to 43°C</b>	<b>Approximately 80% or less</b> Long operation under high humidity may leads to waterdrop or smoky vapor at the supply air grille.
<b>Heating operation</b>	<b>Approximately 27°C or less</b>	<b>Approximately -10 to 21°C</b> If outside air temperature becomes low, the heating efficiency is lowered and the heating becomes difficult.	

(Note) Operation range may differ depending on models .Please check the catalog.



**MITSUBISHI HEAVY INDUSTRIES, LTD.**

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